

HERE IT IS!



REEL # 130

FEYBIN, N.P.

FRANTSUZOV, B.L., kand.med.nauk, POLYAK, L.A., FEIGIN, N.P., (kiyev)

Antibiotic therapy in chronic highmoritis. Vest.cto.-rin. 20 no.4
104-105 J1-Ag '58 (MIRA 11:7)

(ANTIBIOTICS)
(SINUSITIS)

FEYGIN, N.P.

Morphological characteristics of palatine tonsils in dogs following ultrasonic irradiation. Zhur.ush., nos. 1 gorl. bol. 24 no.5:61-67 S-O '64. (MIRA 18:3)

1. Iz patomorfologicheskoy laboratorii (zav. - doktor med. nauk N.Ye.Botsman) Nauchno-issledovatel'skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR (dir. - zasluzhennyy deyatel' nauki prof. A.I.Kolomyichenko).

2
1. TECHNICAL AND ECONOMIC CHARACTERISTICS OF SYNTHETIC
FUELS. IN: SYNTHETIC FUELS. ARTICLES
Artificial Fuel, Technical Council of Ministry of Oil, Collection. May 1957.
Title in Ref. Zh. (Oil Ind., Moscow), May 1957, 681.

ShB
Unit

FEYGIN, S.A.; TYUFYAKIN, S.P.

Technical and economic indexes of the production of heating gas
from oil-shale fines. Gas. prom. no.3:9-11 Mr '57.

(MIRA 12:3)

(Oil shales) (Gas manufacture and works)

FLEYGIN, S. A

RESEARCH & MARKETING POLYMERIZATION

604/6579

Кафедра по физическому воспитанию и спорту, 1998
Дисциплина физическая

International symposium on "Early carcinogenesis" (Chemical Industry: Transactions of the Conference on the Development of Production Forces in Eastern Siberia) Moscow, 14-16 April, 1960. 202 p. (Series: Materials provided to the all-Union library) Krasnoyarsk inserted. 2,000 copies printed.

SPONSORING AGENCY: Akademija Nauk SSSR. Survee po izuchenijsu protivostoi'nykh sil. Biblioteko vvedenijsu.

[illegible]

FOOTNOTES: This book is intended for chemical engineers and economic planners concerned with the industrial development of Eastern Europe.

[illegible]

Chemical Industry (Cont.)

808/2579

Kennedy, J.M. [Corresponding Number, AC 1088]

Perels, S.A. (Comodatos de Technical Sciences (VIRIUM)

Paul 'Rover'ich, B.I.

Professors, N.M. (USSR RESEARCH (State Scientific and Technical Commission at the Council of Ministers RESEARCH))

Barry A. J.

Johnson, H.J.

Director, D.A. Professor, BETHANI (Central Wood-Chemical Scientific Research Institute);

III. MODIFICATIONS OF THE CURRENT SECTION OF THE CONVENTION

AVAILABLE: Library of Congress (DD9556.M6225, 1958)

02-1 10/10

NY 65-15861-1

FEYGIN, S.A.

Technical and economic indices of the gas-chemical processing of
unsorted oil shales. Trudy IGI 16:478-482 '61. (MIRA 16:7)
(Oil shale)

S/065/62/000/006/003/007

E075/E136

AUTHORS: Feygin, S.A., and Straumo, M.K.

TITLE: On the method of estimating costs for petrochemical plants

PERIODICAL: Khimiya i tekhnologiya topliv i masel, ⁷no.6, 1962, 35-41

TEXT: A method of distribution of expenditure between the products and intermediates of petrochemical industries is described. For products derived from catalytic cracking, stabilized gasoline and its overhead fraction are included among the principal products. Heavy catalytic gas oil is costed in the same way as the feed for the process. The value of dry gas is estimated to be 20% higher than that of liquid boiler fuel or crude oil. For high temperature catalytic cracking the unsaturated hydrocarbons present in the dry gas are also considered as the principal product of the process. The value of saturated hydrocarbons is estimated to be 20% higher than that of crude oil. Light catalytic gas oil is considered as the

Card 1/3

On the method of estimating costs... S/065/62/000/006/003/007
E075/E136

principal product only if it is utilized for the production of carbon black. Hydrogen sulphide in the dry gas and overhead fraction is valued separately as source of sulphuric acid. It is proposed that the principal products of the separation of dry gases are hydrogen and ethylene. Propane-propylene fraction is valued according to the cost of the products of separation of the overhead fractions. The value of propane-propylene fraction is estimated to be the same as that of butane-butylene fraction and the value of pentane-amylene fraction the same as that of thermal cracking benzene. For the products resulting from catalytic reforming the authors consider that the valued product should be the total hydrogen-containing gas and not hydrogen only. The authors accept the estimate of Giproftezavod in which the aromatic hydrocarbons are the principal products of the reforming process. The byproducts are valued as follows: motor gasoline as the feed oil; raffinates as the straight-run benzenes; polymers as the crude oil. It is recommended that for the production of solid paraffins the principal products should be dewaxed oil and slack-wax. The recommendation of
Card 2/3

On the method of estimating costs ... S/065/62/000/006/003/007
E075/E136

Giproneftezavod to consider the soft waxes as principal products is accepted. For the production of fatty acids by the oxidation of paraffin waxes, the accepted principal products are $C_5 - C_{20}$ acids. In the production of detergents all the propylene polymers are considered as the principal products, including the dimers. The 80-220 °C fraction of alkyl-benzenes is valued as benzene from catalytic cracking and the fraction boiling above 360 °C valued as boiler fuel. ✓

ASSOCIATION: VNII NP

Card 3/3

40624

S/065/62/000/010/001/004
E194/E184

11.0132

AUTHORS: Foygin, S.A., and Buchina, L.I.

TITLE: Prospects of making and using gas turbine fuels

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.10, 1962,
42-46

TEXT: It is desired to use residual or heavy distillate fuels for gas turbines because diesel fuel, though suitable, is in short supply. The following maximum requirements apply to gas turbine fuel: vanadium 0.0005-0.001%; ash 0.03%; sulphur 3%; pour point +5 °C. Materials of suitable vanadium content include straight run distillates, and distillates obtained from thermal and catalytic cracking and from coke production. The economics of making gas turbine fuels from these materials are discussed and it is concluded that when making electrode carbon by slow coking of low sulphur crudes it is more economic to make gas turbine fuel than diesel fuel, partly because the motor gasoline yield is higher. With high sulphur crudes the advantages are greater because the diesel fuel requires hydrofining and the gas turbine fuel does not. Coking in a fluidised bed of heat transfer medium is also to be
Card 1/2

Prospects of making and using gas ... S/065/62/000/010/001/004
E194/E184

applied and in this case the gas turbine fuel will have a higher residual content and the motor gasoline yield is higher. Gas turbine fuel has not yet been made on a large scale from distillates of coke production, but available data point to the following conclusions. Gas turbines are still of lower efficiency than internal combustion engines but in making gas turbine fuel from low and high sulphur crudes the running and capital costs are only about half those of hydrofined diesel fuel and, therefore, considerable economy results from the use of gas turbines. This conclusion is supported by performance figures for ships' engines and locomotives.

There are 6 tables.

ASSOCIATION: VNII NP

Card 2/2

FEYGIN, S.A.; BASOV, A.N.; SHOLPO, I.N.; ZIL'BERMAN, F.Ya.

Economic prospect for the use of high-sulfur mazut by electric power plants. Khim.i tekhn.topl.i masel 8 no.11:43-49 N '63.

(MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

FEYGIN, S.A.; SHOLPO, I.N.

Petroleum crude as a source of ammonia. Nefteper. i neftekhim.
no.8:31-33 '63. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniya iskusstvennogo zhidkogo topliva.

FEYGIN, S.A.; BURALEVA, A.I.

Expediency of the production of sulfur in petroleum processing plants.
Khim.prom. no.1:20-21 Ja '64. (MIRA 17:2)

FEYGIN, S.A.; BASOV, A.N.; SHALPO, I.N.; BRANDOBVSKAYA, L.A.

Economics of the refining of sour crude oil: a topic for
discussion. Khim. i tekhn. topl. i masel 9 no. 5:44-48
5 May 64 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pere-
rabotke nefiti i gaza i polucheniya iskusstvennogo zhidkogo
topliva.

ABRAMOV, A.V.; ANTONOVA, B.T.; OKUNEL'NICH, N.A.; PASTERNAK, P.N.; PLEKHANOV,
V.P.; LIZAKOV, G.A.; ZHADAROVSKIY, N.N.; PACHIN, G.A.; RYKOVA, I.S.

Obtaining raw stock for the production of active carbon black by
extraction with the selective solvents of the gas oils of catalytic
cracking. Khim. i tekhn. topl. i masel 9 no.7:36-39 JI '64.

(KIRA 10:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

FRYGIN, S.A.; BASOV, A.M.; KOSTYUKOVSKAYA, S.B.; JELDI-AMINAZAROV, T.Kh.;
KIEVLEV, H.A.; KOGAN, Ya.S.

Economic evaluation of the efficiency of alternatives for remodeling
existing catalytic cracking units. Nefteper. i neftekhim. no.10:
11-14 '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniya iakusativnogo zhidkogo topliva.

BEYGIN, G.A.; KOSPIITSKIY, B.D.; KONTAGINA L.L.

Prospects for the introduction of new methods for the production of benzene. Nefteper. i neftekhim, no.3:37-40 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza . polucheniye iskusstvennogo zhidkogo topliva.

L 41645-65 EPF(c)/ENT(m)/ENP(d)/T/ENP(t) Pr-4 WE/JD

ACCESSION NR: AP5006660

8/0083/65/000/003/0042/0045

AUTHOR: Feygin, S. A.; Karpichev, V. H.

TITLE: Prospects for the industrial introduction of a high temperature thermocontact cracking process

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 3, 1965, 42-45

TOPIC TAGS: Cracking, petroleum, mazut, fluidized bed, refining

ABSTRACT: The thermocontact cracking process on a fluidized bed, developed by VNIINP, is highly promising. The technology of this process permits creation of a mighty enterprise (over 3.0 million tons per year of mazut or 1.8-2.0 million tons per year of petroleum asphalt). Technical plans have been completed for the combined installation of "atmospheric distillation and thermocontact cracking on a fluidized bed" designed to process 3.0 million tons of petroleum annually. The thermocontact cracking process is flexible and, depending on the raw material and the processing conditions (principally the temperature), will permit production of a wide assortment of products (gasoline, diesel fuel, gas turbine fuel, raw material for catalytic cracking, boiler fuel and coke). The high temperature (600-515°C)

Card 1/2

L. 1645-65

ACCESSION NR: AP5006660

variation of the thermoccontact cracking process, developed at VNIINP, appears promising even for increasing the reserves of petrochemical raw materials. This variation of the process not only permits effective removal of the main mass of asphalt and tar substances in the form of coke from the heavy residues, and creation of a wide variety of products, but also significantly increases the yield of unsaturated hydrocarbons. A comparison was made of the two processes for cracking mazut: the yields of the various fractions were given. The economic features of the two processes were compared. The authors consider the high temperature variation of the thermoccontact cracking process feasible for industrial operations. The problem of rational use of the 205-250°C fraction and the high sulfur coke must be solved to increase the effectiveness of the process. Orig. art. has: 5 tables.

ASSOCIATION: VNIINP

SUBMITTED: 00

ENCL: 00

SUB CODE: **FP**

NO REF SOV: 000

OTHER: 000

CC
Card 2/2

L 52569-65 EWT(m)/EPE(c)/T Pr-4 DJ

ACCESSION NR: AP5009899

UR/0065/65/000/004/0039/0043

AUTHORS: Teygin, S. A.; Bogacheva, L. G.; Chernyy, Yu. I.

TITLE: Prospects for introducing new purification processes in oil

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 4, 1964, 39-43

TOPIC TAGS: petroleum industry, oil, distillation, lubricant, lubricating oil, filtration, adsorption dehydration, molecular adsorption, hydrogenation/ MS 20 residual oil

ABSTRACT: New processes for primary and secondary purification of crude oils are discussed. The two-stage de-asphaltizing of petroleum-asphalt by propane, combined with other purification methods, is recommended for the production of residual oils. This process results in an increased output of the products and a greater diversification of highly viscous oils. Because all the processes discussed produce similar results, the choice of procedure is determined by the oil quality required and by the available reagents. The duosol process is recommended for the production of residual oils of MS-20 type. Furfural was widely used as a selective solvent in the production of distillate oil fractions from crudes low in tar and sulfur. The output of refined oils with furfural purification exceeded by 5-6% the

Card 1/2

I 52569-65

ACCESSION NR: AP5009899

output of the phenol method, and consumed less energy. Because other processes differed little economically and technically from the furfural process, their choice was also determined by the requirements of distillate oils. The adsorption purification method produced oils of the best color and coking capacity, and increased their output by 15%. The authors recommend that this process be further developed, that the production of synthetic adsorbents be increased and that the method of secondary contact purification be discontinued. The application of the deep hydrogenation at 50-70 atm pressure is also recommended for secondary purification of distillate and residual oils, especially at those plants with access to large quantities of hydrogen. The latter method is economical, improves oil quality, and can be applied to any type of crude and to the secondary products. Comparative production figures of oils purified by the various methods are tabulated. Orig. art. has: 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: FP

NO REF SOV: 000

OTHER: 000

Card 2/2

РЭВАН, С.А.; КИСИЛОВ, В.А.

Prospects for the utilization in the production of high-pressure
pure, thermal contact cracking processes. Khim. i tekhn. masel i
masel 10 no.3:42-45 Apr '65. (Khim. i tekhn. masel 10 no.3:42-45 Apr '65)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gazov i plucheniyu iakusticheskogo zhidkogo topliva.

LOVITSKAYA, I.V., nauchnyy sotrudnik; ~~FEYGIN, S.L., nauchnyy sotrudnik~~

If you want to be healthy. Nauka i zhizn' 27 no.8:28-30 Ag
'60. (MIRA 13:9)

1. Leningradskiy nauchno-issledovatel'skiy institut fizkul'tury.
(Physical education and training)

FEYGIN, S.L.

Familial alopecia areata. Vest.derm.i ven. 35 no.1:84 Ja '61.
(MIRA 14:3)

1. Iz Yurginskogo kozhno-venerologicheskogo dispansera Kemerovskoy oblasti (glavnyy vrach S.L. Feygin).
(BALDNESS)

FEYGIM, S.Ye., inzh.

Effectiveness of increasing the operating period between general
overhauls of boiler and turbine equipment of electric power plants.
Elek. sta. 36 no.10:27-30 0 '65.

(MIRA 18:10)

PEYGIN, T.S.

Sanitary conditions of the Oka River at Ryazan. Gig. 1 san.
no.10:46 O '55. (MLRA 9:1)

(OKA RIVER--POLLUTION) (RYAZAN-WATER--POLLUTION)

FEYGIN, T. S. Cand Med Sci -- (diss) "Dysentery bacteria and
bacteriophage, which destroys dysentery stimulants,
in the open reservoirs of the city of Ryazan," Ryazan, 1959, 24 pp,
250 cop. (Ryazan Medical Institute im Acad. I. P. Pavlov) (KL, 45-60, 129)

FEYGIN, T.S.

Sanitary indications in the detection of bacteriophage lysing dysentery pathogens in the water of open reservoirs. Zhur. mikrobiol., epid. i immun. 40 no.11:132-137 N '63. (MIRA 17:12)

1. Iz Vil'nyusskogo instituta epidemiologii i gigiyeny.

FEIGIN, V.

FEIGIN, V. Kustarno-remeslennaia promyshlennost' SSSR. Moskva, Moskovskii
rabochii, 1927. 127 p.
NN

DLC: HD2346.R8F4

SO: LC, Soviet Geography, Part I, 1951, Uncl.

FEYGIN, V., inzhener.

Giant controlled by electronics. Tekh.mel.23 [1.e24] no.7:12-13 J1
'56. (Automatic control) (Rolling mills) (MIRA 9:9)

FEYGIN, V.A., inzh.

Work of the Scientific-Technological Society of the White Russian
Machinery Industry should contribute to the solution of vast problems.
Mashinostroitel' no.9:47 S '59. (MIRA 13:2)

1.Zamestitel' predsedatelya Pravleniya nauchno-tekhnicheskogo
obshchestva mashinostroitel'noy promyshlennosti Belorussii.
(White Russia--Research, Industrial)

FEYGIN, V.A., inzh.

Mechanization of auxiliary operations in forge shops. Mekh. i avtom.
proizv. 16 no.6:28-29 Je '62. (MIRA 15:6)
(Forge shops---Technological innovations)

FEYGIN, V.A.

Conference of cutting-tool industry workers in White Russia.
Stand instr. 34 no.2:45 F '63. (MIRA 16:5)
(White Russia—Machine-tool industry)

FEYGIN, V. I.

"Single Armature Cascade Booster with the 'Rototrol' Exciter,"
Elektrichestvo, M No. 2, 1948.

Engr. Gen. Lab of Automatics, Ministry of Ferrous Metall USSR.

30/4/1968

USSR/Engineering
Regulators, Automatic
Furnaces, Electric Arc
Sep 48

"Automatic Regulators for Arc Steel Melting Furnaces,
Equipped With 'Regulax' Electromechanical Boosters,"
Yu. I. Yefromovich, Cand Tech Sci, V. I. Feygin,
Engg, Cen Lab of Automatics, Min of Ferrous Metals,
3-pg

"Prom Energet" No 9

Present trend in designing regulators for subject
furnaces is to replace relay-contact circuits by
electromachine automatic circuits. Research is being
carried out in VEI (All-Union Electrotech Inst) and

30/4/1968

USSR/Engineering (Contd) Sep 48

TsLA (Cen Lab of Automatics). Existing regula-
tors are of rototrol or regulax type. Former
described in previous article (see 32715). Here,
gives detailed account of construction and per-
formance of regulax type, with one circuit dia-
gram, and three graphs.

FEYGIN, V. I.

30/4/1968

FEYGIN, V. I.

LA 55/49T51

USSR/Engineering
Electrothermal Equipment
Automatic Control

May 49

"Review of 'Electrothermics,' V. I. Feygin,
Engr, 1 p

"Elektrichestvo" No 5

Book is symposium of technical and informative
material on research, design and manufacture of
electrothermal equipment. Points out absence of
material on induction smelting furnaces for
ferrous metals and on ferroalloy arc furnaces.
In addition, problems of automatic control

55/49T51

USSR/Engineering (Contd)

May 49

and regulation of electrothermal units are insuffi-
ciently covered. Over half of the articles are
theoretical; General level of articles differs
widely. Reviewer recommends establishment of new
electrothermal journal.

55/49T51

FEIGIN, V.I.

00000057

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

BOOK

Call No.: TN686.T54

Authors: EFROIMOVICH Yu.F., Cand. of Tech. sciences
KRICHEVSKIY, G.M., Engineer
LEVITANSKIY, B.A., Engineer
MALAYA, R.Yu., Cand. of Tech. Sciences, deceased
NEIFAKH, G.M., Cand. of Tech. Sciences
POPOV, M.D., Engineer
SMORODINSKIY, I. M., Cand. of Tech. Sciences
SOSUNOV, V.N., Engineer
STASYUK, V.N., Engineer
TAITS, A.A., Engineer
FEDOSEEV, L.M., Engineer
FEIGIN, V.I., Engineer
CHELYUSTKIN, A.B., Engineer
SHERENTSI, A.N., Engineer

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES.

Transliterated Title: Spravochnik elektrika predpriyatii chernoi metallurgii

Publishing Data

Originating Agency: None.

Publishing House: State Publishing House of Scientific-Technical Literature on Ferrous and Nonferrous Metallurgy (Metallurgizdat). Moscow.

Date: 1972

No. pp.: 1167

No. copies: 14,000

1/2

FEIGIN, "I.

00000058

2/2

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES

Call No.: TN686.T54

Editorial Staff

Compiler: Tikhomirov, I.G., Engineer

Tech. Ed.: None.

Editors: Shalyapin, M.G.

Appraiser: None.

Levitanskiy, B.A.

Text Data

Coverage: A detailed handbook containing technical data on specifications, standards, design and operation of various types of electrical equipment in ferrous metallurgical industries: electric power supply plants and their distributing systems, transforming stations and transmission lines (high and low tension), blast furnace works, rolling mill plants, open-hearth plants, mines, electrical steel smelting and ferroalloy furnaces, sintering plants, coke plants, and electrical transport. Tables and diagrams. Subject index.

Purpose: A handbook for electrotechnical personnel, engineering technicians, machine operators, and planning personnel of metallurgical industries.

Facilities: None.

No. of Russian references: References listed at end of each chapter.

Available: Library of Congress.

FEYGIN, V.I.

FEYGIN, V.I.; CHELYUSTKIN, A.B., redaktor; SIDOROV, V.N., redaktor;
VAYNSHTEYN, Ye.B., tekhnicheskii redaktor

[Electric-machine power booster in rolling mills] Elektromashinnye
usiliteli v prakatnykh tsakhakh. Moskva, Gos. nauchno-tekhn. izd-vo
lit-ry po chernoi i tsvetnoi metallurgii, 1954. 83 p. (MIRA 8:4)
(Electric generators) (Boosters, Electric)

AKTIVA V.I.

ZHIRYAKOV, N.I.; LESYUK, B.Z.; RABINOVICH, B.V.; SOZAYEV, S.M.; FEYGIN, V.I.

Automatic control in the production of zinc. TSvet. met. 27 no.1;
30-41 Ja-F '54. (MLRA 10:9)
(Automatic control) (Zinc--Metallurgy)

CHELYUSTKIN, A.B.; ROZENMAN, Ye.A.; FEYGIN, V.I., redaktor; NEPOMNYASHCHIY, N.V., redaktor; ATTOPOVICH, M.K., tekhnicheskii redaktor.

[Automatic control of rolling-mill machinery] Avtomaticheskoe upravlenie prokatnymi stanami. Izd.2-oe, perer. i dop. Moskva, Gosnauchno-tekhn.isd-vo lit-ry po chernoi i tsvetnoi metallurgii. 1955. 614 p. (MLRA 8:12)
(Rolling-Mill machinery)

FEYGIN, Viktor Iosifovich; DOKUKINA, Ye.V., redaktor; SUSHKIN, I.N.,
redaktor izdatel'stva; EVENSON, I.M., tekhnicheskiy redaktor.

[Dynamoelectric amplifiers used in rolling mills] Elektronachin-
nye usiliteli v prokatnykh tsekhakh. Izd. 2-oe, dop. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii,
1957. 101 p. (MLRA 10:6)

(Electric controllers) (Electric driving)
(Rolling mills)

137-58-5-8858

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 16 (USSR)

AUTHORS: Feygin, V.I., Zhiryakov, N.I.

TITLE: A Computer-relay Circuit System for the Automation of Certain Technological Processes (Schetnaya releynaya skhema dlya avtomatizatsii nekotorykh tekhnologicheskikh protsessov)

PERIODICAL: Sb. statey po energetike. Moscow, Metallurgizdat, 1957, pp 302-309

ABSTRACT: Computer-relay circuit systems may be successfully employed in the design of certain automatic systems intended to perform control functions relative to production machinery. A computer-relay system is described which is capable of adding and subtracting electrical impulses. The circuit comprises an input circuit unit and a computer circuit unit. The input circuit unit reacts to the sign of the impulse and segregates odd and even impulses. The computing circuit unit contains n computing relays, where n is the maximum value of an algebraic sum of impulses for which the system is

Card 1/2

137-58-5-8858

A Computer-relay Circuit System for the Automation (cont.)

designed. The paper describes the employment of the computing circuits in the automatic regulation of a rolling mill and in various temperature-control systems.

1. Mathematical computers--Circuits
2. Industrial production--Equipment

V.K.

Card 2/2

12-12-57, V.I.

ALIMOV, I.S., inzhener; BOGUSLAVSKIY, I.M., inzhener; ZHIRYAKOV, N.I.,
inzhener; FEYGIN, V.I., inzhener.

Equipment for preventing overheating. Priborostroenie no.7:28-30
Jl '57. (MLRA 10:9)

(Thermostat)

FEYGIN V.I.

AUTHORS: Zubkov, G.A. and Feygin, V.I.

127-11-10/12

TITLE: Automation and Dispatching in the Ore-Mining Enterprises (Avtomatizatsiya i dispetcherizatsiya na gornorudnykh predpriyatiyakh)

PERIODICAL: Gornyy Zhurnal, 1957, # 11, pp 64-72 (USSR)

ABSTRACT: The authors describe the work performed by the Designing Bureau of the "Tsvetmetavtomatika" Trust (KB UMA) on the automation and dispatcher control of processes in the ore-mining enterprises. Designs and schemes of the developed equipment are briefly described. A set of signalization, centralization and blocking equipment for the control of underground transport, CUE, has been constructed. The set includes: a dispatcher panel, relay-cases, inlet-distributing boards, devices for communication with portable and stationary objects, switch drives, traffic lights, relay and cable cases, pulse indicators, etc. The large-scale manufacture of this equipment has begun in the "Tsvetmetpribor" Plant in Nal'chik. Automatic ventilation doors for the mines of non-ferrous metallurgy have been designed to operate concurrently with the CUE - and dispatcher systems. The door is moved by a 180-w electric motor. New communications means have been constructed for dispatcher control: loudspeaking communication apparatus of the ПГСП

Card 1/3

Automation and Dispatching in the Ore-Mining Enterprises

127-11-10/12

3-120 type for underground operation which contains only semiconductor elements; high-frequency installations for loud-speaking communication of the B43 -1M type high-frequency installation for information, search and communication of the BCO -124 type, etc. High-frequency equipment with semiconductor elements for communication with a moving shaft cage has been constructed and put into operation in one mine in Dagtyarka. At the present time, a system of automatic and remote control of shaft mechanisms is being designed; only one worker, the cager, will be needed to operate mechanisms in all horizons of a mine. As soon as television sets are installed in all the horizons, the operation of shaft mechanisms and the mine car-exchange will be carried out automatically, even without a cager. In 1955, Tsvetmetavtomatika and Gintsvetmet designed standard installations for the automation of mining pumping. Since 1956 these installations have been manufactured by the Tsvetmetpribor Plant. Tsvetmetavtomatika has designed ATB-229 apparatus for temperature protecting of electric motor windings and bearings by means of thermistors connected with relays. The relays can be fixed for various critical temperatures from 80° to 110° C with intervals of 10°. Experimental consignments of these devices with TP -33 thermistors are being manufactured

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Automation and Dispatching in the Ore-Mining Enterprises

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by the Tsvetmetavtomatika, and beginning from 1958 their mass production is planned in the L'vov plant "Termopribor". Tsvetmetavtomatika together with the Degtyarka Mining Administration are developing a system of electric locomotives remote control from a switchboard located at a loading (or unloading) point. Tsvetmetavtomatika carries out designing, manufacturing and introducing dispatcher control systems into operational mines. Standard devices manufactured by industry are used for this dispatcher control. However, some special indicators have been designed and are being designed for the control of some parameters. In particular, a special gamma-relay has been developed for the control of the ore level in hoppers. The relay operates on semiconductor elements and cobalt radioisotopes. The article contains 10 photos, 1 figure and 10 Slavic references.

AVAILABLE: Library of Congress

Card 3/3

SOV/136-58-6-8/21

AUTHORS: Feygin, V.I. and Zhiryakov, N.I., Boguslavskiy, I.M.

TITLE: Automation of Rolling Mills in Non-ferrous Metallurgy
(Avtomatizatsiya prokatnykh stanov v tsvetnoy metallurgii)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 6, pp 42 - 52 (USSR)

ABSTRACT: This article deals mainly with work done by the KB Tsvetmetavtomatika on the automation of the three-high, hot-rolling mill at the imeni S. Ordzhonikidze Works and of the reversing cold strip mill at the Kirovskiy zavod (Kirov Works). The work on the first was carried out with the participation of B.S. Fradkin, V.S. Morozov and A.A. Vasil'yeva. This mill rolls mainly billets of type L-62 (115 x 800 x 600 mm) and L-90 (100 x 800 x 350 mm) brass into coiled strip (4.0 - 6.0 mm thick) or sheet (15 mm thick), generally in nine passes. The first stage of automation embraces all the operations, previously carried out by the operator, all the roller tables, the tilting lifts, the middle-roll moving mechanism and the screw-down to a programme, synchronization of the roller speeds with that of the rolled strip to avoid surface damage. The operator now merely selects the appropriate programme and looks after the mechanisms; the arrangement (Figure 3)

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SOV/136-58-6-8/21

Automation of Rolling Mills in non-ferrous Metallurgy

does provide for immediate manual take-over. The authors describe the system in detail and state that experience has shown that the automation had led to some process advantages and a 2% increase in rolling rate; the power of the motor preventing further improvements; almost all occasions of manual take-over were due to outside factors; the scatter in the thickness of the product was 35% less than with manual control. The automation of cold-rolling mills was started at the end of 1956. With the participation of B.M. Avdeyev and S.I. Alimov, the 250 four-high mill for cold-rolling brass from 1 to 0.4 mm at rolling speeds up to 3.5 m/sec has been automated, some original (Ref 4) proposals as well as some made by the TsKB "Elektroprivod" (Ref 5) and TsNIITMash (Ref 6) being used. For the continuous measurement of metal pressure on the rolls, a strip strain gauge (Figure 4) is used, provision being made for calibration directly in the mill, according to a proposal by Ye.S. Rokotyan and I.M. Meyerovich of TsKBMM of TsNIITMash. When the pointer on the indicating instrument reaches the maximal desired value of the pressure, it operates a photo-relay to produce the appropriate change

Card2/4

SOV/136-58-6-8/21

Automation of Rolling Mills in non-ferrous Metallurgy

at the stand. For the continuous thickness control of the strip, the system adopted (Figure 5) is based on two radioactive isotope devices, one before and the other after the mill. An integrating device (Figure 6) is included in the system to ensure that only sufficiently important changes in thickness operate the control system. For stopping the rolls just before the end of the strip reaches them, a system (Figure 7) based on counters of the number of turns of strip on the coilers is used; for thicker strip (0.7 mm and over) the metal is allowed to leave the coilers but not the rolls, the control being effected with the aid of a small, type FR-236 photo-relay (Figure 8). In 1957, the KB TsMA studied the indirect measurement of roll temperature from that of a small volume of air in contact with the rolls. Model tests have shown an error of $\pm 3^{\circ}\text{C}$ for an ambient temperature of $20 \pm 5^{\circ}\text{C}$.

Card 3/4

SOV/136-58-6-8/21
Automation of Rolling Mills in Non-ferrous Metallurgy

There are 8 figures and 6 Soviet references.

ASSOCIATION: KB Tsvetmetavtomatika

Card 4/4

9(6); 18(5)

PHASE I BOOK EXPLOITATION

SCV/2851

Feygin, Viktor Iosifovich

Elektronnyye pribory v metallurgii (Electronic Instruments in Metallurgy) Moscow, Metallurgizdat, 1959. 221 p. Errata slip inserted. 6,100 copies printed.

Ed.: B. V. Rabinovich; Ed. of Publishing House: T. I. Kiseleva, Engineer; Tech. Ed.: P. G. Islent'yeva.

PURPOSE: This book is intended for foremen and skilled workers of laboratories and industrial control rooms.

COVERAGE: The author presents brief information on the electron and the electric field and discusses the principle of operation and construction of electron tubes and photocells. He describes electronic devices, including devices for automatic control of industrial processes in metallurgical plants, and presents a brief discussion of automatic measuring instruments using radioactive isotopes. The author thanks B. A. Letitanskiy,

Card 1/4

Electronic Instruments (Cont.)

SOV/2851

Engineer, for reviewing the text and S. Z. Grinberg, Engineer, for his help in preparing the manuscript for printing. There are 10 references, all Soviet.

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Electronic Instruments (Cont.)

SOV/2851

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AVAILABLE: Library of Congress

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JP/jmr
1-20-60

14(5)

SOV/127-59-3-11/22

AUTHORS: Feygin, V.I. and Fromberg, A.B., Engineers

TITLE: Devices for the Protection of Bushings and Electric Motors From Overheating. (Apparatura dlya zashchity podshipnikov i elektrodvigateley ot peregreva)

PERIODICAL: Gornyy zhurnal, 1959, Nr 3, pp 41-45 (USSR)

ABSTRACT: On the basis of research conducted by the institut elektrotekhniki AN UkrSSR (The Electro-Technical Institute of the AS UkrSSR) and the Institut Energetiki AN BSSR (The Power Institute of the AS BSSR) the Design Office of Tsvetmetavtomatika developed a universal device for protecting bushings and windings of electric motors from overheating. The device (ATV-229) was built-in to motors of ventilators for local ventilation in the Degtyarka Copper Mine. Its working is based on the property of some thermoresistances to instantly reduce their resistance when a certain temperature is reached.

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SOV/127-59-3-11/22

Devices for the Protection of Bushings and Electric Motors From Overheating.

The Tsvetmetpribor Plant is producing this equipment. In 1958, a new device, called temperature signalizer ST-12, was developed. This device guards against the simultaneous overheating of 12 points of the motor, thus replacing twelve ATV-229 devices. There are 2 varieties of this device, the ST-12c-234 (figure 3) for automatic control of circuits, and the ST-12r-224 for manual control. The feelers of the device are semiconductor thermoresistances with relay characteristics. Thermo-resistances fixed on bushings or windings of motors are connected in series with electro-magnetic relays. The feeding of feeler circuits is made through a regulated transformer, four rectifiers assembled on germanium

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SOV/127-59-3-11/22

Devices for the Protection of Bushings and Electric Motors From Overheating.

diodes and a voltage divider. When overheating occurs in one of the 12 controlled points, a corresponding relay plugs in a general warning and a lamp is lighted which indicates the overheated point. There are 2 schemes and 1 photo.

ASSOCIATION: Tsvetmetavtomatika, Moscow

Card 3/3

SOV/137-59-12-26587

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 12, p 119 (USSR)

AUTHORS: Alimov, S.I., Zhiryakov, N.I., Feygin, V.I.

TITLE: An Automatic Programming Controller of the Heat Treating Process for Tungsten and Molybdenum Rods

PERIODICAL: Sb. materialov po avtomatiz. proiz. protsessov i dispetcherizatsii, Nr 3, Moscow, 1958, pp 84 - 93

ABSTRACT: The regulator is intended for automatic current control according to the given program in welding W and Mo rods. A "D-33" type ampere-meter of the ferrodynamic system serves as a unit to measure the intensity of the welding current through the transformer. The program is set-up by shaped cams rotated by a synchronous motor. The basic part of the controlling device consists of the "MRShch-PR" (or ERM-47) electronic unit of the regulator; the inductive coils are fastened on the master device (zadatchik) and the foil flag-indicators which can enter into the gaps between the coils are fastened to the pointer. Relay coils are switched

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SOV/137-59-12-26587

An Automatic Programming Controller of the Heat Treating Process for Tungsten and Molybdenum Rods

into the electron unit outlet; they control the reversible contactors of the potential-controller motor. The controller makes it possible for one operator to attend 8 - 12 welding machines, raising efficiency by a factor of two and ensuring the strict maintenance of the set-up conditions for heating-up the rods.

A.S. ✓

Card 2/2

FEYGIN, V. I.

Report to be presented at the 1st Int'l Congress of the Int'l Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

1. P. P. Kozlov, M. L. "Ultra stability in electronic calculating devices in the solution of nonlinear equations in indefinite form."
2. G. A. B. - "Use of calculating devices in systems for automatic control of roller mills."
3. Chumachenko, V. K. - "Concerning time problems of the organization of self-adjusting and self-learning systems of automatic control, based on principles of random search."
4. Davydov, E. L. - "Development of automatic control systems for boiler units."
5. Dudnikov, Ye. G. - "Determination of optimum adjustments of industrial automatic regulation systems according to initial data obtained from experience."
6. Duvvin, A. I. and Kozlov, M. L. - "Methods of organizing regulatory functions in the theory of nonlinear regulating systems."
7. Kuznetsov, E. I. - "Balanced regulation and intercommunications of multi-branch electric drive and technology in continuous rolling mills."
8. Pechenkin, A. A. - "Problems of statistical theory of automatic optimization systems."
9. Pechenkin, A. A. - "Automation of a reversible cold rolling mill for continuous mills."
10. Filaretov, A. P. - "Application of the theory of differential equations with a discontinuous right side to nonlinear problems of automatic regulation."
11. Gavrilov, M. A. - "Structural analysis and operational reliability of relay devices."
12. Gulin, M. L. - "Automation of irrigation systems."
13. Gurevich, G. E. and Kuznetsov, V. K. - "Concerning the problems of the stability of electric power systems."
14. Gurevich, G. E. - "Regional methods of synthesis of functional converters."
15. Ivanov, V. A. - "Methods of transmission of information and the structure of telemechanical systems for dispersed structures."
16. Kozlov, V. K. and Litvinov, G. M. - "The code-impulse system of telemechanical systems for dispersed structures."
17. Kozlov, V. K. - "Concerning the application of the theory of combined regulation systems for automatic adaptation of systems."
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BOGULAVSKIY, I.M.; ZHIRYAKOV, N.I.; FEYGIN, V.I.

Automation of a reversing mill for cold rolling of nonferrous
metals. Sbor.mat.po avtom.proizv.prots.i disp. no.5:72-93 '60.
(MIRA 14:4)

1. Konstruktorskoye byuro "TSvetmetavtomatika."
(Rolling mills) (Automation)

S/569/61/006/000/005/008
D201/D303

AUTHOR: Feygin, V. I. (USSR).

TITLE: Automation of the reversible non-ferrous metal cold-rolling mill

SOURCE: International Federation of Automatic Control. 1st Congress, Moscow, 1960. Trudy, v. 6. Avtomatizatsiya proizvodstvennykh protsessov; khimiya, neftepererabotka, teploenergetika, yadernaya energetika, metallurgiya. Moscow, 1961, 421-430

TEXT: The author describes three automatic controls as developed by the design office of "Tsvetmetavtomatika" for control of four-high-250 non-ferrous metal rolling mills. The complete units are now in production and proved to be a success. A reversible four-high-250 non-ferrous metal rolling mill consists of a cage with two reels and is used for brass rolling. The rolling reduction program is 1.0 - 0.75 - 0.6 - 0.5 - 0.4 mm. The working rollers are 250 mm in diameter, end rollers of 750 mm diameter and the

Card 1/3

Automation of the reversible ...

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D201/D303

body length of 800 mm. Rolling speed = 3.5 m/sec; cooling of rollers with emulsion. The electric drive consists of a generator-motor system, the feed d.c. motor power is 300 kW, 450/900 r.p.m., 440 V. Gear reduction ratio = 3.37. The three automatic controls were applied as follows: 1) The system of automatic control of the strip thickness makes the thickness more uniform and uses the maximum possible rolling speed. The sensing elements of the system are the isotope thickness gauges type ИРГ-495 (IGU-495) placed on both sides of the cage and determine the thickness from the amount of absorbed β -radiation. 2) The automatic mill stop system (AMSS): Thin tapes are usually rolled without their ends leaving the reels. The AMSS stops the mill at the required instant, by starting the braking at the optimum instant from the count of number of tape turns remaining in the reel. The turns-counting arrangement is electromechanically coupled either with the reel or motor shaft of the program controller and automatically stops the rolling mill in accordance with the given length of the unrolled tape remaining on the reel. 3) Automatic control system of metal against rollers pressure: The sensing elements are tension-gauge resistances,

Card 2/3

Automation of the reversible ...

S/569/61/006/000/005/008
D201/D303

glued to the internal surface of a glass cylinder under pressure. The tension-gauges can be calibrated directly on the mill. The described system of automatic control of reversible rolling mills has reduced considerably the discrepancies in the rolled tape thickness and made it possible to operate the mills at pressures within 5% of nominal, thus reducing the wear of the rollers and finally increased the overall efficiency by reducing losses due to the rejects and waste due to the non-processed ends of the tape. A. B. Chelyustkin (USSR) and B. N. Dralank (USSR) took part in the discussion. There are 5 figures.

Card 3/3

ZUBKOV, G.A., inzh.; FEYGIN, V.I., inzh.

Over-all mechanization and automation is the decisive
factor in the future growth of labor productivity in mines.
Gor. zhur. no.6:3-6 Je '62. (MIRA 15:11)

1. Konstruktorskoye byuro TSvetmetavtomatika, Moskva.
(Mining engineering—Equipment and supplies)
(Automation)
(Labor productivity)

FEYGIN, V.I.

Automation of production processes in nonferrous metallurgy.
Melch.i avtom.proizv. 16 no.11:30-33 N '62. (MIRA 15:12)

1. Glavnyy konstruktor konstruktorskogo byuro "TSvetmetavtomatika".
(Nonferrous metals--Metallurgy)
(Automation)

FEYGIN, Viktor Iosifovich

[Electronic and semiconductor instruments in metallurgy]
Elektronnye i poluprovodnikovye pribory v metallurgii.
Moskva, Izd-vo "Metallurgiya," 1964. 386 p. (MIRA 17:7)

L 1653-66 ENT(m)/ENP(t)/ENP(k)/ENP(b)/ENA(a) JD/HW

ACCESSION NR: AP5021620

UR/0286/65/000/013/0101/0101
621.979.984.002.54

AUTHOR: Shofman, L. A.; Gedyain, Yu. Yu.; Hoshkov, V. M.; Starikov, V. S.;
Kryuchkov, M. V.; Davydov, G. V.; Akhmetshin, M. V.; Kvitnitskiy, A. B.;
Hogozinskiy, A. A.; Kovalev, I. I.; Yegorov, I. V.; Boytberg, L. Kh.; Yermakov, M. I.;
Rodionov, A. S.

TITLE: Method for tube extrusion, Class 49, No. 172601

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 101

TOPIC TAGS: metal, metal tube, metal extrusion, tube extrusion

ABSTRACT: This Author Certificate introduces a method for tube extrusion from solid ingots. In this method the metal is first divided into several strips which are subsequently welded in the next die. In order to reduce the extrusion pressure, the diameter of the ingot should be smaller than that of the extruded tube. (AL)

ASSOCIATION: none

SUBMITTED: 30Jan62

ENCL: 00

SUB CODE: M4

NO REF SOV: 000

OTHER: 000

ATD PHNS: 4093

L 1655-66 ENT(d)/ENT(m)/ENP(v)/ENP(t)/ENP(k)/ENP(h)/ENP(b)/ENP(l)/ENH(a)

JD/HW
ACCESSION NR: AP5021621

UR/0286/65/000/013/0102/0102
621.979.984.002.54

AUTHOR: Shofman, L. A.; Gadymin, Yu. Yu.; Roshkov, V. M.; Starikov, V. B.;
Kryuchkov, M. V.; Davydov, G. V.; Akhmetshin, M. M.; Kvitnitskiy, A. N.;
Rogozinskiy, A. A.; Feygin, V. I.; Yegorov, I. V.; Roytberg, L. Kh.; Yermanok, M. Z.
Rodionov, A. B.

TITLE: Tool for extruding of tubes. Class 49, No. 172602

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 102

TOPIC TAGS: tube, metal tube, tube extrusion, extrusion tool, extrusion press

ABSTRACT: This Author Certificate introduces a tool for the extrusion of tubes from solid ingots, i.e., container, mandrel, welding chamber, and die. In order to increase the rigidity of individual tools and ensure their precise position in relation to one another, thereby improving the accuracy of the extruded tubes, the mandrel is rigidly mounted in relation to the container; it carries an internal die and is provided with a central compartment for the ingot. Radial canals connect this compartment with the welding chamber, which is formed between container wall and the mandrel surface. (AZ)

Card 1/2

L 1655-66

ACCESSION NR: AP5021621

ASSOCIATION: none

SUBMITTED: 31Jan62

NO REF SOV: 000

ENCL: 00

OTHER: 000

2
SUB CODE: MM

ATD PRESS: 4095

Card 2/2 *EP*

ACC NR: AP7000338

SOURCE CODE: UR/0413/66/000/022/0098/0099

INVENTOR: Blinov, D. P.; Ovcharenko, Ye. Ya.; Sazhayev, V. G.; Feygin, V. I.;
Shleyfman, Kh. M.

ORG: none

TITLE: Device for automatic detection of flaws on a moving surface. Class 42,
No. 188685 [announced by the Design Bureau of Automation in the Nonferrous Industry
(Konstruktorskaya byuro "Tvetmetavtomatika")]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 98-99

TOPIC TAGS: metal surface, flaw detection, metal inspection, optic method, optic
instrument

ABSTRACT: This Author Certificate introduces an automated flaw detector for the
inspection of a moving surface of an article such as a metal strip. The detector con-
tains a source of light and an optical system for the concentration of luminous flux,
which is placed in front of a panel with light guides and with light-sensitive elements
connected to the electronic inspection device. To increase the sensitivity to small
flaws and to facilitate the inspection of wide strips, the instrument has branched
light guides which ensure an optical connection between the source of light, the
inspected surface, and the light sensitive elements. In a variant, the adverse effect
of vibration of the inspected surface on the instrument performance is reduced by

Card 1/2

UDC: 620.179

ACC NR: AP7000338

V-form light guides which ensure a perpendicular direction of the light flux toward the inspected surface. In a second variant, the inspection of any shaped surface is done by light guides assembled in a bundle whose shape corresponds to that of the inspected surface. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 22May64/

Card. 2/2

L 51376-65 EWP(k)/EWA(c)/EWT(d)/EWT(m)/EWP(h)/EWP(b)/EWA(d)/EWP(l)/EWP(r)/EWP(r)/
EWP(e) PF-4 EM/AD/EM
ACCESSION NR: AP5010976 UR/0286/65/000/007/0165/0165

AUTHOR: Zakharov, M. F.; Feygin, V. I.; Rcytbarg, L. Kh.; Shneyerov, I. S.;
Yermanok, M. Z.; Gil'dengorn, M. S.

TITLE: An extrusion attachment. Class 49, No. 169985 16

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 165

TOPIC TAGS: extrusion, panel extrusion, extrusion attachment, panel extrusion
device 14

ABSTRACT: This Author Certificate introduces an attachment for the extrusion of
panels from hollow billets. The device consists of a mandrel (see Fig. 1 of the
Enclosure) fitted into a hollow stem and centered in the die which, during extru-
sion, forms the inner wall of the container. In order to lower the extrusion force
and to increase the quality of extruded articles, the stem is designed as a cyclin-
der in which the mandrel slides freely and the die has the shape of an open ring
Orig. art. has: 1 figure. [WW]

ASSOCIATION: none

Card 1/3

L 51376-65

ACCESSION NR: AP5010976

SUBMITTED: 14Jul62

ENCL: 01

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4006

Card 2/3

L 51376-65

ACCESSION NR: AP5010976

ENCLOSURE: 01

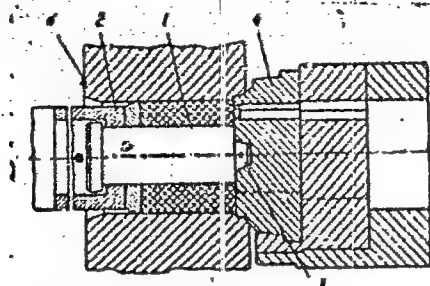


Fig. 1. Extrusion attachment

- 1 - Mandrel; 2 - hollow stem;
- 3 - free end of mandrel; 4 - die;
- 5 - container.

Card 3/3 1123

L 2481-66 EWT(d)/EPA/EWT(1)/EWP(f)/EPF(n)-2/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(l)/ETC(m)

ACCESSION NR: AP5024367

UR/0286/65/000/015/0035/0035

621.165-567.5

621.438-567.5

AUTHOR: Gokhman, D. B.; Feygin, V. L.

TITLE: A device for compensating for axial stresses in turbomachines. Class 14,
No. 173247

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 35

TOPIC TAGS: axial stress compensation, gas turbine, compressor, labyrinth packing

ABSTRACT: An Author Certificate has been issued for a device for compensating for axial stresses in turbomachines, e.g., gas turbines and compressors. The device contains a balancing piston and end packing which, with the casing, forms an intermediate cavity filled with the working medium which is drained off into a lower-pressure area. To increase reliability and to simplify the design, the piston is sectionalized in the form of several disks serving as the components of the radial labyrinth packing mounted on the shaft end. Within the casing, a shaped fitting is rigidly mounted over the inlet to the labyrinth packing, thus forming a cavity within the piston for feeding the working medium (see Fig. 1 of the Enclosure). Orig. art. has: 1 figure. [LB]

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut im. I. I. Polzunova (Central Boiler and Turbine Institute)

Card 1/3

L 2481-66

ACCESSION NR: AP5024367

SUBMITTED: 29Dec63

ENCL: 01

SUB CODE: . IE

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4164

Card 2/3

L 2481-66

ACCESSION NR: AP5024367

ENCLOSURE: 01

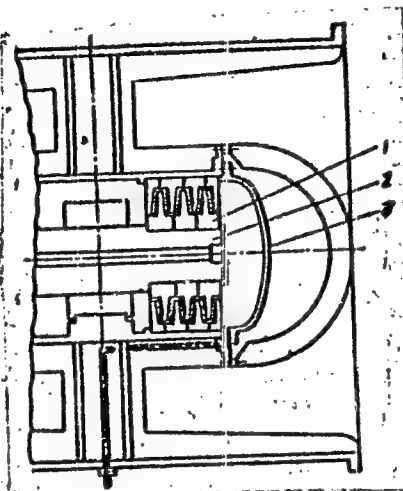


Fig. 1. Stress compensator

1 - Balancing piston; 2 - turbine shaft; 3 - shaped fitting.

BVK
Card 3/3

FEIGIN, YA.G

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economic geography." Reviewed by M.Rozenfel'd, IA.Feigin). Vop.ekon.
no.7:145-149 J1 '56. (MLRA 9:9)
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LIVSHITS, Raisa Solomonovich,; FEYGIN, Ya. G., prof., otv. red.; PIROGOV,
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[Distribution of the iron and steel industry of the U.S.S.R.]
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(Iron industry)
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(Food industry)

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ALAMPIYEV, Petr Martynovich; FEYGIN, Ye. G. . . otvetstvennyy red.; SHENKMAN, B.I., red. izd-va; ASTAP'YEVA, G.A., tekhn. red.

[Elimination of economic inequalities among people of the Soviet East and the socialist distribution of industry; historical account of Kazakhstan] Likvidatsiia ekonomicheskogo neravenstva narodov Sovetskogo Vostoka i sotsialisticheskoe razmeshchenie promyshlennosti; istoricheskiy opyt Kazakhskoi SSR. Moskva, Izd-vo Akad. nauk SSSR, 1958. 450 p. (MIRA 11:3)
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FEYGIN, Yakov Grigor'yevich,; RABINOVICH, M., red.; DANILINA, A., tekhn. red.

[Location of production centers in capitalism and in socialism]
Razmeshchenie proizvodstva pri kapitalizme i sotsializme. Izd. 2.,
perer. i dop. Moskva, Gos. ind-vo polit. lit-ry, 1958. 686 p.
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(Industries, Location of)

AUTHOR: Feygin, Ya.G. SOV-10-58-4-18/23

TITLE: Modern Trends in the Economic Geography of Western European Countries and the USA (O novykh techeniyakh v ekonomicheskoy geografii stran zapadnoy Evropy i SShA)

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958, Nr 4, pp 120-130 (USSR)

ABSTRACT: This is a discussion of various West European and American books and articles on economic geography, developing, in particular the theory of space economy. On the whole, it condemns the capitalist economic system and praises the advantages of the Soviet socialist economy. There are 10 references, 3 of which are Soviet and 7 American.

1. Social sciences 2. Literature

Card 1/1

Inst. Economic AS USSR

SOV/30-58-10-1/53

AUTHOR: Feygin, Ya. G., Corresponding Member of the AS UkrSSR

TITLE: Scientific Treatment of the Accomodation Problems of Socialist Industrial Production (Nauchnaya razrabotka problem razmeshcheniya sotsialisticheskogo proizvodstva) Fundamental Directions of Research (Osnovnyye napravleniya iss dovaniy)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 10, pp 3-10 (USSR)

ABSTRACT: The elaboration of a prospective plan for a series of Five-Year Plans, in which these problems must be considered, is impending. In this respect, too little assistance is as yet being rendered to planning organs by scientific institutes. In 1956-58 economic-geographical monographs concerning the Union Republics and some economic areas were published. In the field of agriculture, these problems are being dealt with by VASKhNIL. The Sovet po izucheniyu proizvoditel'nykh sil Akademii nauk SSSR (Council for the Investigation of the Productive Resources of the AS USSR) deals with these problems in the regions of East Siberia and Far East. The Institut ekonomiki Akademii nauk SSSR (Institute of Economics of the AS USSR) has elaborated a series of monographs (L. V. Opatskiy, R. S. Livshits, A. M. Korneyev, P. M.

Card 1/3

SOV/30-58-10-1/53

Scientific Treatment of the Accomodation Problems of Socialist Industrial
Production. Fundamental Directions of Research

Alampiyev, V. G. Udovenko, and others). Conditions of accomoda-
tion have changed with the development of science and tech-
nology. In order to save time and capital in the construction
of electric power plants, N. S. Khrushchov suggested that the
construction of electric power plants with cheap Siberian and
Kazakhstan coal or natural gas as basic energy source be in-
tensified within the next 7 or 8 years. The Economic Institute
and the Council for the Investigation of **the Productive Resources**
of the AS USSR have, under the supervision of V. S. Nemchinov,
Member, Academy of Sciences, USSR, drafted a plan of research
for the accomodation of industries, which has, however, given
rise to numerous difficulties. The experience of the economic
councils and the fact that experienced specialists on this sub-
ject are available must be considered an asset. Geographers,
geologists, energy experts, technologists, transport experts,
and others must be employed for this task. The coordination of
the work of the Economic Institute with that of others and,
primarily, with the Institut ekonomiki i organizatsii
promyshlennogo proizvodstva (Institute of Economics and the
Organization of Industrial Production), which is being formed

Card 2/3

SOV/50-58-10-1/53
Scientific Treatment of the Accomodation Problems of Socialist Industrial
Production. Fundamental Directions of Research

in the Siberian Department of the AS USSR, is described as im-
portant.

Card 3/3